

JOHN DEERE 87 AND 88 BED FERTILIZER ATTACHMENTS



OPERATORS MANUAL JOHN DEERE 87 AND 88 BED FERTILIZER ATTACHMENTS

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ENGLISH





TO THE PURCHASER

Behind your new bed fertilizer attachment is an organization that has designed and built farm implements for over 125 years. Your bed fertilizer attachment was built in a John Deere factory by experienced men, many who have worked in this large plant from 10 to 45 years. Their experience helps to assure good design, high-grade workmanship, and thorough inspection, so essential to the production of good implements.

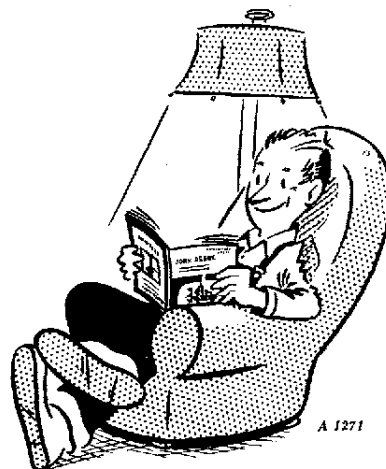
High-quality materials, precision production methods, and accurately-controlled heat-treating assure maximum strength and long life for every part of your new bed fertilizer attachment.

This manual has been carefully prepared and illustrated to assist you in making your fertilizer attachment work properly with your bedder. Adjustments, such as rate of fertilizer application, are fully covered in this manual.

Occasionally your bed fertilizer attachment may need new parts to replace worn parts, or require emergency service not covered in this manual. If so, we suggest that you take advantage of the facilities offered by your John Deere dealer, which assure you of genuine John

Deere Parts and prompt "know-how" service in the field or in the shop.

Record the date your fertilizer attachment was purchased in the space below. This information will help your John Deere dealer supply you with the correct replacement parts.



Study this manual carefully. Keep it handy, in a safe place, for future reference.

JOHN DEERE 87 AND 88 BED FERTILIZER ATTACHMENTS	
Model No.	
Date Purchased. 19	
<i>(To be filled in by Purchaser)</i>	



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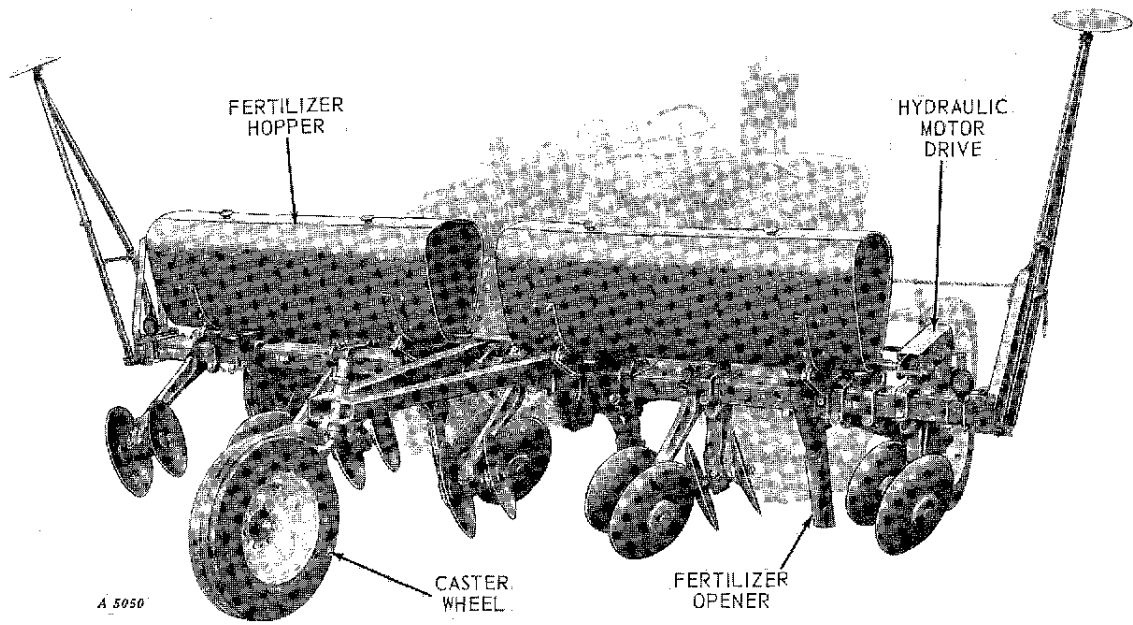
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SPECIFICATIONS

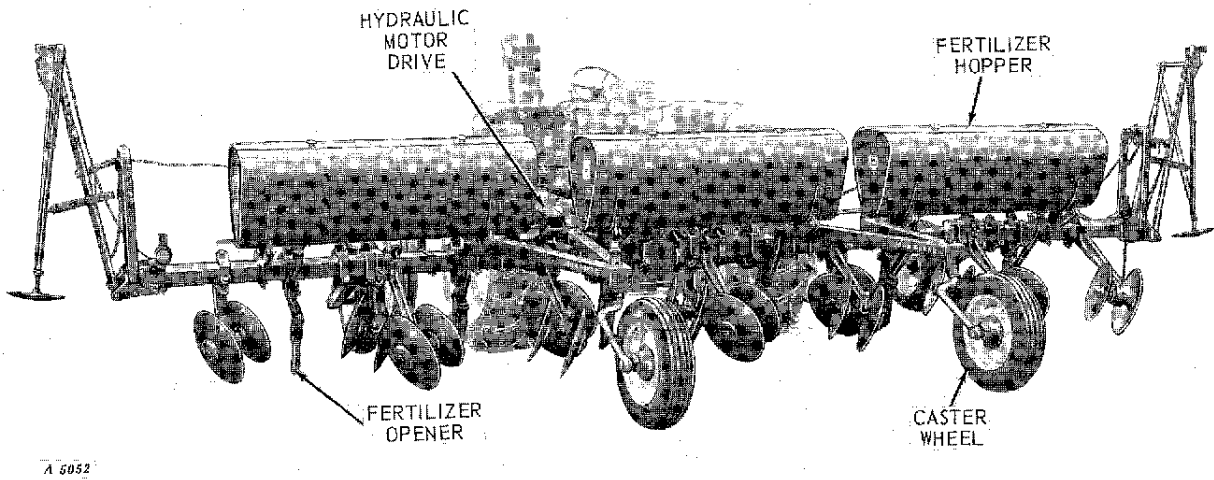
TYPES	The 87 Bed Fertilizer Attachment for use with the F984 Integral 4-Row Disk Bedder for John Deere 2510, 3010, 3020, 4010, 4020, 5010, and 5020 Tractors. The 88 Bed Fertilizer Attachment for use with the F986 Integral 6-Row Disk Bedder for John Deere 4010, 4020, 5010, and 5020 Tractors.
DRIVE	87 Bed Fertilizer Attachment-Hydraulic drive, regular. Gauge wheel drive, optional. 88 Bed Fertilizer Attachment-Hydraulic drive only.
FERTILIZER HOPPERS. . .	Auger feed. 64-inch hopper has approximately 700 pounds capacity. Various delivery rates may be obtained by changing either drive sprockets, augers, or hydraulic motor speed.
ROW SPACING.	38- or 40-inch rows.

(Specifications and design subject to change without notice.)

NOTE: When the terms "right" or "left" are used, it means from a position behind the bed fertilizer attachment and looking toward the front.



John Deere 87 Bed Fertilizer Attachment on F984 4-Row Disk Bedder



John Deere 88 Bed Fertilizer Attachment on F986 6-Row Disk Bedder



OPERATION

PREPARING THE BEDDER

Refer to your bedder operator's manual for proper use of gauge wheels, row spacing, and for information on preparing the tractor.

PREPARING THE BED FERTILIZER ATTACHMENT

LUBRICATION

Be sure fertilizer attachment has been properly lubricated. See lubrication chart on page 13.

BOLTS AND SET SCREWS

Before you use your new fertilizer attachment or after it has been stored, check to see that all bolts and set screws are tight and all cotter pins are spread to prevent them from falling out.

It is a good practice to check for loose bolts, screws, or parts when lubricating the fertilizer attachment. Loose bolts are easily lost or can cause excessive wear on parts, resulting in possible serious damage to the fertilizer attachment.

Incorrect adjustment also results in rapid wear, possible breakage and inefficient operation.

PREPARING AND ADJUSTING THE TRACTOR

For complete tractor operating instructions, refer to your tractor operator's manual.

REAR WHEEL WEIGHTING

Rear wheel weights may be necessary to eliminate excessive wheel slippage or for stability in rough or hillside fields. However, weights should not be added to the point where all slippage is eliminated. To do so would hinder maximum performance of the tractor.

The ideal amount of added weight can be determined by observing the tracks of the rear wheels. When the tractor is pulling its rated load, the soil between the tire lugs should be broken or shifted. If too much weight has been added, the tread marks will be clear and distinct. If too little weight has been added, the tread marks will be entirely obliterated.

Liquid Weights

Water and calcium chloride solution is an economical means of adding weight to rear wheels. Calcium chloride is recommended rather than water as it will not freeze. See your tractor operator's manual or your John Deere dealer.

Cast-Iron Weights

Where weight in addition to or in place of liquid weight is required, cast-iron weights can be bolted to the rear wheels. These weights can be secured from your John Deere dealer.

To determine maximum ballast, refer to your tractor operator's manual.

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FRONT END WEIGHTING

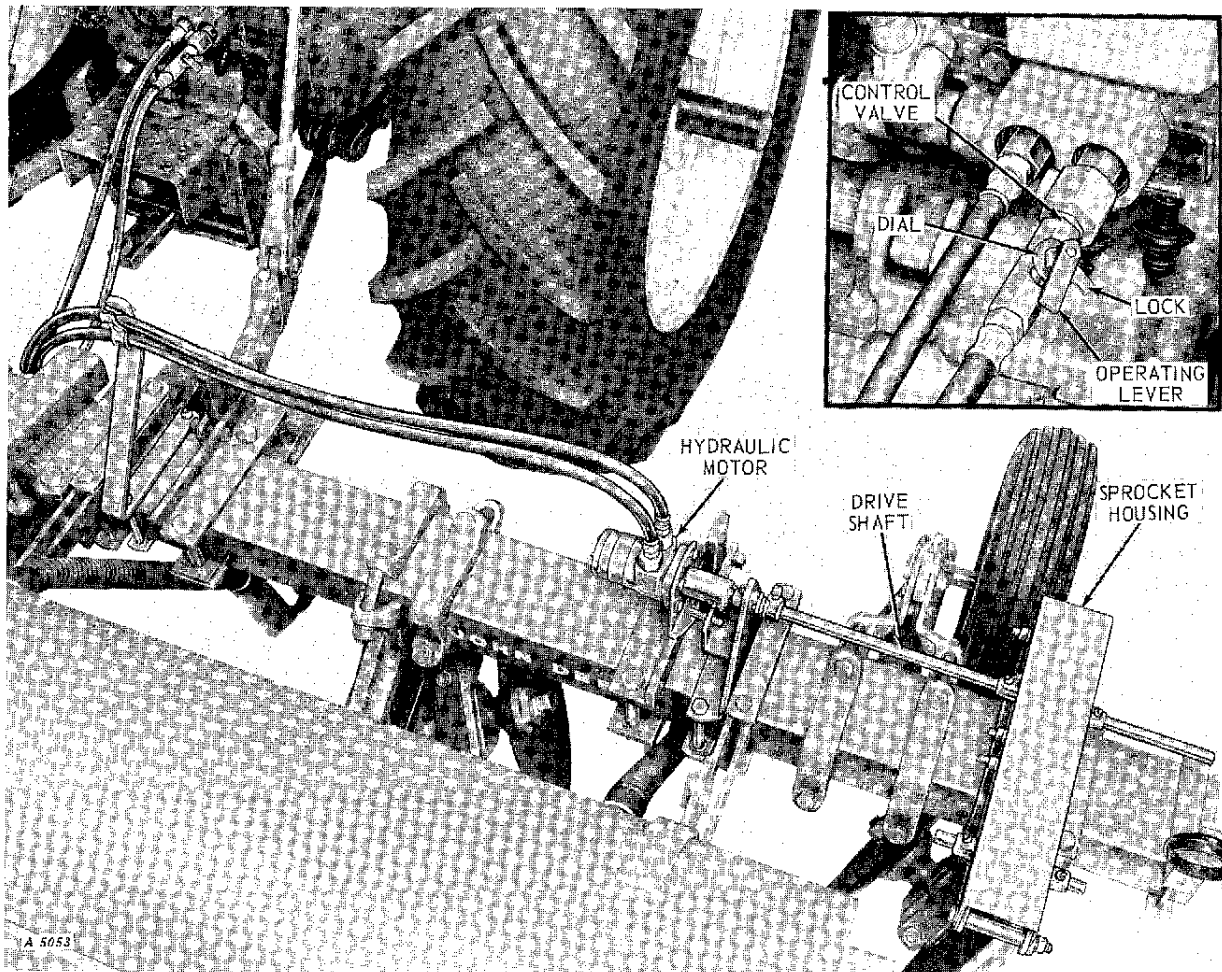
Front end weighting is necessary to insure proper transport stability. The following table gives the recommended front end weighting when the 87 or 88 Bed Fertilizer Attachments are used with the F984 and F986 Disk Bedders:

Total Front Weight Required for Transport Stability

	87 with F984 Disk Bedder	88 with F986 Disk Bedder
2510 ROW-CROP:		
Single Front Wheel	400 Lbs.	Not Recommended
Double Knuckle	400 Lbs.	Not Recommended
Roll-O-Matic	400 Lbs.	Not Recommended
Adjustable Front Axle	100 Lbs.	Not Recommended
3010 ROW-CROP:		
Single Front Wheel	400 Lbs.	Not Recommended
Double Knuckle	400 Lbs.	Not Recommended
Roll-O-Matic	400 Lbs.	Not Recommended
Adjustable Front Axle	100 Lbs.	Not Recommended
3010 ROW-CROP UTILITY:		
Adjustable Front Axle:		
Long Wheelbase	300 Lbs.	Not Recommended
Short Wheelbase	400 Lbs.	Not Recommended
3010 STANDARD:		
Fixed Tread	300 Lbs.	Not Recommended
Adjustable Tread	300 Lbs.	Not Recommended
3020 ROW-CROP:		
Single Front Wheel	300 Lbs.	Not Recommended
Double Knuckle	300 Lbs.	Not Recommended
Roll-O-Matic	300 Lbs.	Not Recommended
Adjustable Front Axle	0 Lbs.	Not Recommended
3020 ROW-CROP UTILITY:		
Adjustable Front Axle:		
Long Wheelbase	0 Lbs.	Not Recommended
Short Wheelbase	0 Lbs.	Not Recommended
3020 STANDARD:		
Fixed Tread	0 Lbs.	Not Recommended
Adjustable Tread	0 Lbs.	Not Recommended
4010 ROW-CROP:		
Single Front Wheel	0 Lbs.	800 Lbs.
Roll-O-Matic	0 Lbs.	800 Lbs.
Adjustable Front Axle	0 Lbs.	700 Lbs.
4010 STANDARD:		
Fixed Tread	0 Lbs.	700 Lbs.
Adjustable Tread	0 Lbs.	700 Lbs.
4020 ROW-CROP:		
Single Front Wheel	0 Lbs.	800 Lbs.
Roll-O-Matic	0 Lbs.	800 Lbs.
Adjustable Front Axle	0 Lbs.	400 Lbs.
4020 STANDARD:		
Fixed Tread	0 Lbs.	500 Lbs.
Adjustable Tread	0 Lbs.	500 Lbs.
5010 STANDARD:		
	0 Lbs.	200 Lbs.
5020 STANDARD:		
	0 Lbs.	200 Lbs.
5020 ROW-CROP:		
	0 Lbs.	200 Lbs.

NOTE: When draft load exceeds pull available in 4th gear, additional front end weight will be required for proper control while working. A maximum of two side and eight front weights, plus solution in front tires may be added.

HYDRAULIC MOTOR DRIVE



The fertilizer attachments are regularly equipped with a hydraulic motor drive.

The speed of the hydraulic motor and the hopper sprocket combinations determine the amount of fertilizer applied. See "Rate of Fertilizer Application" on page 7.

The speed of the hydraulic motor is controlled by a valve located at the end of the front motor hydraulic hose.

A pointer on the valve operating lever and numbers on the valve dial indicate the speed of the motor.

To increase the speed of the motor, turn the operating lever toward the higher numbers on the dial. To decrease the speed of the motor, turn the lever toward the lower numbers.

When the desired motor speed has been ob-

tained, secure the operating lever in position with the lock lever.

Do not operate hydraulic motor under 50 rpm.

Tractor engine speed must be at least 1200 rpm for efficient operation of the hydraulic motor.

Hose with valve must be connected to the outside receptacle of the breakaway couplers as shown.

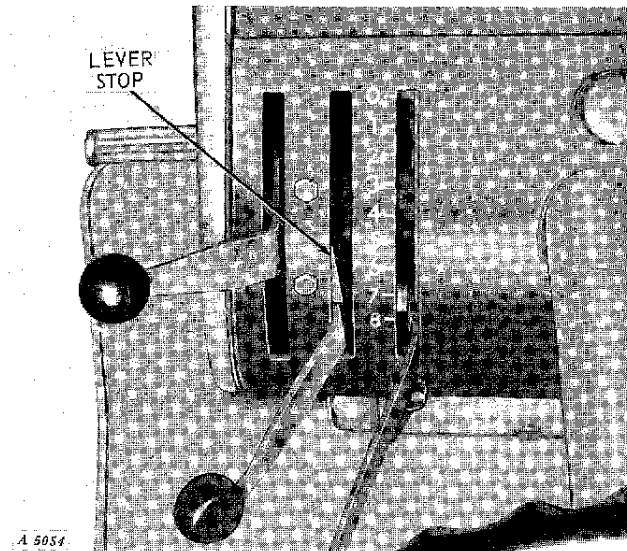
When attaching to a tractor equipped with a "Quick-Coupler," the hydraulic hoses must be attached so they are under the coupler frame.

CAUTION: Escaping hydraulic oil under pressure can cause personal injury; therefore, be sure all connections are tight and that hoses are not damaged.

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HYDRAULIC MOTOR DRIVE—Continued

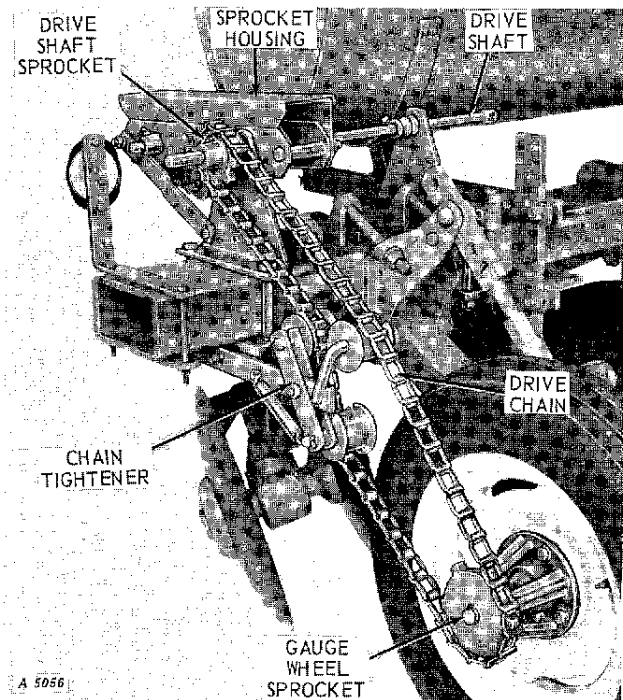
LEVER STOP



To operate the hydraulic motor drive, it is necessary to keep the tractor remote cylinder operating lever in the operating position.

A lever stop must be attached to the tractor as shown above. Installation instructions are given on page 24.

GAUGE WHEEL DRIVE



Left Side Illustrated

Gauge wheel drive is available for the 87 Bed Fertilizer Attachment only.

The fertilizer hoppers should be driven from the outer ends of the hoppers as illustrated.

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